

CLAIMS

1. A brazed product obtained by brazing a metal part made of a metal and a ceramic part made of a ceramic, wherein brazing is carried out by applying a binder to at least an object portion to be brazed of one of the metal part and the ceramic part; spreading and firmly depositing an active silver braze powder containing the following components a) to c),

a) silver,

b) copper, and

c) at least one of titanium, zirconium, indium, and tin on the binder; overlapping a corresponding portion to be brazed of a counterpart member thereon; and heating the both in a furnace to melt the active silver braze powder and brazing therewith.

2. The brazed product according to claim 1, wherein the active silver braze powder is produced by an atomization method and the ratio of the active silver braze powder having a particle diameter of 10 μm to 100 μm is 90% or more.

3. The brazed product according to claim 1, wherein the metal part is made of copper or a copper alloy, the ceramic part is made of aluminum nitride or silicon nitride, and the brazed product is a heat sink for releasing heat of a semiconductor device.

4. A part for brazing made of a metal or a ceramic and to be used for producing a brazed product by brazing a metal and a ceramic, wherein the part is obtained by applying a binder to at least an object portion to be brazed of one of the metal part and the ceramic part, and spreading and firmly depositing an active silver braze powder containing the following components a) to c),

a) silver,

b) copper, and

c) at least one of titanium, zirconium, indium, and tin on the binder.